ABSTRACT OF THE DISCLOSURE

A method of charging a liquid crystal display (LCD) device that includes providing a plurality of scan lines, providing a plurality of video lines formed orthogonal to the scan lines, providing a plurality of cells, each cell including a transistor and a capacitor coupled to the transistor, each of the cells being formed at an intersection of the scan lines and video lines, providing a periodic signal for writing video data into the LCD device, charging the plurality of cells having first-type transistors during a first half cycle of the periodic signal until a first voltage level of the periodic signal is reached, charging the plurality of cells having second-type transistors during a second half cycle of the periodic signal until a second voltage level of the periodic signal is reached, and discharging the plurality of cells to a predetermined voltage level.

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